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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/585,356	07/06/2006	Patrick Broyer	128528	2561
25944 OLIFF & BER	7590 10/16/200 RIDGE PLC	8	EXAMINER	
P.O. BOX 320850			BERGIN, JAMES S	
ALEXANDRI	A, VA 22320-4850		ART UNIT PAPER NUMBER	
			3641	
			MAIL DATE	DELIVERY MODE
			10/16/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Application No. BROYER ET AL. 10/585,356 Office Action Summary Examiner Art Unit

Applicant(s)

	JAMES S. BERGIN	3641					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING D. - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is generalled above, the macroums statutory period with a status to reply within the set or extended period for reply with by statustic. - Taburs to reply within the set or extended period for reply with by statustic and the status of the status	ATE OF THIS COMMUNICATION 16(a). In no event, however, may a reply be tin till apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this o D (35 U.S.C. § 133).	,				
Status							
1) Responsive to communication(s) filed on <u>06 Ju</u> 2a) This action is FINAL . 2b) This 3 Since this application is in condition for allowar closed in accordance with the practice under <i>E</i>	action is non-final. ace except for formal matters, pro		e merits is				
Disposition of Claims	, , , .						
4) ⊠ Claim(s) 1-15 is/are pending in the application. 4a) Of the above claim(s) is/are withdrav 5) □ Claim(s) is/are allowed. 6) ☒ Claim(s) 1-15 is/are rejected. 7) □ Claim(s) is/are objected to. 8) □ Claim(s) are subject to restriction and/or							
Application Papers							
9) ☐ The specification is objected to by the Examiner 10) ☑ The drawing(s) filed on 06. July 2006 is/are: a)(Applicant may not request that any objection to the c Replacement drawing sheet(s) including the correction 11) ☐ The oath or declaration is objected to by the Ex	☑ accepted or b) ☐ objected to b drawing(s) be held in abeyance. See on is required if the drawing(s) is obj	a 37 CFR 1.85(a). jected to. See 37 C					
Priority under 35 U.S.C. § 119							
12) 🖾 Acknowledgment is made of a claim for foreign a) 🖾 All b) 🗆 Some * c) 🗀 None of: 1. □ Certified copies of the priority documents 2. □ Certified copies of the priority documents 3. ☒ Copies of the certified copies of the prior application from the International Bureau * See the attached detailed Office action for a list	s have been received. s have been received in Applicati ity documents have been receive (PCT Rule 17.2(a)).	on No ed in this National	Stage				
Attachment(s) 1) Notice of References Cited (PTO-892)	4) Interview Summary	(PTO-413)					

- 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)
 3) Hiformation Disclosure Statement(s) (PTO/SE/US)
 - Paper No(s)/Mail Date 9/27/2006.
- Paper No(s)/Mail Date. _____.
- 5) Notice of Informal Patent Application.
- 6) Other: __

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DETAILED ACTION

Claim Rejections - 35 USC § 112

1. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

- 2. Claims 1-9 are rejected under 35 U.S.C. 112, first paragraph, because the specification, while being enabling for a pyrotechnic microsystem comprising a plurality of adjacent microactuators established on the substrate, does not reasonably provide enablement for a pyrotechnic microsystem that does not comprise a plurality of adjacent micro actuators established on the substrate. The specification does not enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the invention commensurate in scope with these claims. The specification has not disclosed an embodiment of the microsystem that comprises an arrangement other than a plurality of adjacent microactuators established on the substrate. An arrangement that does not comprise a plurality of adjacent microactuators established on the substrate is beyond the scope of protection that the applicants' are fairly entitled to claim.
- The following is a quotation of the second paragraph of 35 U.S.C. 112:
 The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 4. Claims 1-15 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

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Claims 1-11 are indefinite as being incomplete for omitting essential elements, such omissions amounting to a gap between the elements. See MPEP § 2172.01. The omitted elements are: a plurality of microactuators.

Claims 1-11 are indefinite as being incomplete for omitting essential structural cooperative relationships of elements, such omission amounting to a gap between the necessary structural connections. See MPEP § 2172.01. The omitted structural cooperative relationships are: a plurality of adjacent microactuators established on the substrate.

Claims 12-15 are indefinite as being incomplete for omitting essential steps, such omission amounting to a gap between the steps. See MPEP § 2172.01. The omitted steps are: Currently method claims 12-15 do not include any method steps and it is in this sense that the method claims are indefinite.

Conclusion

- The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. See the attached PTO FORM 892.
- Any inquiry concerning this communication or earlier communications from the
 examiner should be directed to JAMES S. BERGIN whose telephone number is
 (571)272-6872. The examiner can normally be reached on Monday Wednesday and
 Friday, 8.30 5.30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Carone can be reached on 571-272-6873. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/James S. Bergin/ Primary Examiner, Art Unit 3641